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<u>L23</u>	L22 and telomere\$	33	<u>L23</u>
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<u>L19</u>	L18 and (modified or phosphoro\$)	39	<u>L19</u>
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L12 \$5GGGGTGGGG  
L11 5\$GGGGTGGGG  
L10 \$GGGGTGGGG  
L9 GGGGGGGGGG  
L8 GGGGCGGGG  
L7 GGGGAGGGG  
L6 5489508 [pn]  
L5 L1 and phosphorothioate\$  
L4 L2 and phosphorothioate\$  
L3 l2 and modified  
L2 GGGGTGGGG  
L1 GGGGGG

221 L12  
0 L11  
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1 L3  
2 L2  
96 L1

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- 
- ☐ 1. [20040229894](#). 10 Feb 04. 18 Nov 04. Inhibition of human telomerase by a G-quadruplex-interaction compound. Kerwin, Sean M., et al. 514/279; 546/37 A61K031/4745 C07D471/02.
- 
- ☐ 2. [20040219523](#). 09 Aug 02. 04 Nov 04. Nucleic acid sensor molecules and methods of using same. Stanton, Martin, et al. 435/6; 536/23.1 C07H021/02 C12Q001/68 C07H021/04.
- 
- ☐ 3. [20040171022](#). 20 Aug 03. 02 Sep 04. Methods for regulating transcription by targeting quadruplex DNA. Ebbinghaus, Scot W., et al. 435/6; 435/91.2 C12Q001/68 C12P019/34.
- 
- ☐ 4. [20040152116](#). 08 Jan 04. 05 Aug 04. G-quadruplex binding assays and compounds therefor. Davenport, Lesley. 435/6; C12Q001/68.
- 
- ☐ 5. [20040138257](#). 25 Nov 03. 15 Jul 04. Chemical derivatives and their application as antitelomerase agent. Bouchard, Herve, et al. 514/313; 514/332 514/616 546/159 546/262 564/147 564/152 A61K031/4709 A61K031/444 A61K031/165.
- 
- ☐ 6. [20040132682](#). 07 Oct 03. 08 Jul 04. Method of treating inflammatory lung disease with suppressors of CpG oligonucleotides. Klinman, Dennis M., et al. 514/44; A61K048/00.
- 
- ☐ 7. [20040110820](#). 12 Sep 03. 10 Jun 04. Expanded porphyrin compositions for tumor inhibition. Hurley, Laurence H.. 514/410; 540/1 540/469 540/472 A61K031/409 C07D517/04.
- 
- ☐ 8. [20040063681](#). 16 Sep 03. 01 Apr 04. Methods for using gold (III) complexes as anti-tumor and anti-HIV agents. Che, Chi-Ming. 514/185; 514/410 A61K031/555.
- 
- ☐ 9. [20040053966](#). 10 Sep 03. 18 Mar 04. Chemical derivatives and their application as antitelomerase agent. Mailliet, Patrick, et al. 514/313; 546/159 C07D215/38 A61K031/47 A61K031/4709.
- 
- ☐ 10. [20040053310](#). 24 Jun 03. 18 Mar 04. Exhaustive selection of RNA aptamers against complex targets. Shi, Hua, et al. 435/6; 435/91.2 C12Q001/68 C12P019/34.
- 
- ☐ 11. [20040034023](#). 15 Jul 03. 19 Feb 04. Use of polycyclic aromatic compounds for making medicines capable of inhibiting telomerase. Mergny, Jean-Louis, et al. 514/241; 514/280 514/298 514/313 534/551 534/800 536/32 546/108 A01N043/66 A61K031/4745.
- 
- ☐ 12. [20040018483](#). 02 Apr 03. 29 Jan 04. Crystal structure of G-quadruplex. Neidle, Stephen, et al. 435/4; 530/350 536/23.2 702/19 G06F019/00 G01N033/48 G01N033/50 C07H021/04 C12Q001/00 C07K001/00 C07K014/00 C07K017/00.
- 
- ☐ 13. [20040005601](#). 04 Apr 03. 08 Jan 04. Methods for targeting quadruplex DNA. Siddiqui-Jain, Adam, et al. 435/6; C12Q001/68.
- 
- ☐ 14. [20030207909](#). 04 Apr 03. 06 Nov 03. Therapeutic acridone and acridine compounds. Neidle, Stephen, et al. 514/297; 546/103 C07D219/04 A61K031/473.
-

- ☐ 15. 20030166660. 17 Oct 02. 04 Sep 03. Combinations comprising N-{5-[4-(4-methyl-piperazino-methyl)-benzoylamido]-2-methylphenyl}-4-(3-pyridyl)-2-pyrimidine-amine and at least one telomerase inhibitor. Tauchi, Tetsuzo. 514/252.14; 514/460 A61K031/497 A61K031/496 A61K031/366.

---

- ☐ 16. 20030162200. 15 Oct 02. 28 Aug 03. Methods for modulating telomerase activity. Choo, Yen, et al. 435/6; 435/199 536/23.2 C12Q001/68 C07H021/04 C12N009/22.

---

- ☐ 17. 20030148988. 03 Jan 03. 07 Aug 03. Telomere-encoding synthetic DNA nanocircles, and their use for the elongation of telomere repeats. Kool, Eric T.. 514/44; 435/320.1 435/6 536/23.2 A61K048/00 C12Q001/68 C07H021/04.

---

- ☐ 18. 20030105130. 28 Mar 02. 05 Jun 03. Thiaporphyrin, selenaporphyrin, and carotenoid porphyrin compounds as c-myc and telomerase inhibitors. Hurley, Laurence H., et al. 514/314; 514/338 514/410 540/1 A61K031/4709 A61K031/409 A61K031/4439 C07D345/00.

---

- ☐ 19. 20030087931. 25 Mar 02. 08 May 03. Chemical derivatives and their application as antitelomerase agent. Mailliet, Patrick, et al. 514/313; 546/159 A61K031/4709 C07D41/02 C07D215/38.

---

- ☐ 20. 20030087239. 13 Sep 01. 08 May 03. Target activated nucleic acid biosensor and methods of using same. Stanton, Marty, et al. 435/6; 536/24.3 C12Q001/68 C07H021/04.

---

- ☐ 21. 20030078263. 09 Jan 02. 24 Apr 03. Chemical derivatives and their application as antitelomerase agents. Mailliet, Patrick, et al. 514/241; 544/212 A61K031/53 C07D43/02.

---

- ☐ 22. 20030045538. 28 Feb 01. 06 Mar 03. Viologen linked acridine based molecule and process for the preparation thereof. Danaboyina, Ramaiah, et al. 514/285; 514/297 546/104 546/70 A61K031/4745 A61K031/473 C07D471/02 C07D219/08.

---

- ☐ 23. 20030040525. 27 Aug 01. 27 Feb 03. Inhibition of human telomerase by a G-quadruplex-interaction compound. Kerwin, Sean M., et al. 514/279; 546/37 A61K031/473.

---

- ☐ 24. 20030013711. 22 Feb 02. 16 Jan 03. Chemical derivatives and their application as antitelomerase agents. Mailliet, Patrick, et al. 514/241; 544/198 544/212 A61K031/53 C07D43/02.

---

- ☐ 25. 20020155443. 25 Jan 01. 24 Oct 02. Metal binding DNA interactive compounds. Kerwin, Sean M., et al. 435/6; 530/322 534/727 536/24.3 C12Q001/68 C07H021/04 C07K009/00.

---

- ☐ 26. 20020151556. 16 Jan 02. 17 Oct 02. Method and associated compounds for forming nanotubes. Fenniri, Hicham. 514/262.1; 514/264.1 514/81 544/244 544/256 544/279 A61K031/675 A61K031/519 C07D487/04.

---

- ☐ 27. 20020132797. 28 Sep 01. 19 Sep 02. DNA-cleaving antitumor agents. Kerwin, Sean Michael, et al. 514/151; 514/561 514/63 514/641 552/11 556/413 562/560 564/271 564/272 C07C247/00 A61K031/695 A61K031/655.

---

- ☐ 28. 20020107258. 05 Dec 00. 08 Aug 02. Inhibition of human telomerase by a G-quadruplex-interaction compound. Kerwin, Sean M., et al. 514/279; 546/37 A61K031/4745 C07D471/02.

- ☐ 29. 20020103169. 08 Aug 01. 01 Aug 02. Chemical derivatives and use thereof as antitelomerase agents. Mailliet, Patrick, et al. 514/150; 435/6 514/298 534/551 534/727 534/800 536/25.32 546/108 A61K031/655 A61K031/473 C12Q001/68 C07H021/04 C09B029/42 C09B039/00.
- 
- ☐ 30. 6696565. 16 Jan 02; 24 Feb 04. Method and associated pyrimido[4,5-d]pyrimidine-2,5-diones and pyrido[4,3-d]pyrimidin-2-ones for forming nanotubes. Fenniri; Hicham. 544/244; 544/256 544/279. C07D487/04 C07D471/04.
- 
- ☐ 31. 6689887. 05 Dec 00; 10 Feb 04. Inhibition of human telomerase by a G-quadruplex-interaction compound. Kerwin; Sean M., et al. 546/37; 546/36. C07D515/00 C07D515/02 C07D515/04.
- 
- ☐ 32. 6686345. 28 Sep 01; 03 Feb 04. DNA-cleaving antitumor agents. Kerwin; Sean Michael, et al. 514/151; 514/561 514/63 514/638 514/641 514/671 552/11 556/413 562/560 564/248 564/271 564/272 564/509. C07C247/00 A61K031/695 A61K031/655.
- 
- ☐ 33. 6645964. 28 Nov 00; 11 Nov 03. Chemical derivatives and their application as antitelomerase agent. Mailliet; Patrick, et al. 514/245; 544/197 544/198 544/208 544/209. A61K031/53 C07D251/18 C07D251/54.
- 
- ☐ 34. 6630481. 28 Feb 01; 07 Oct 03. Viologen linked acridine based molecule and process for the preparation thereof. Danaboyina; Ramaiah, et al. 514/285; 514/297 546/103 546/104 546/70. A61K031/474 A61K031/473 C07D219/02.
- 
- ☐ 35. 6623930. 27 Aug 01; 23 Sep 03. Inhibition of human telomerase by a G-quadruplex-interaction compound. Kerwin; Sean M., et al. 435/6; 514/279 546/37. C12Q001/68 A61K031/44 C07D021/22.
- 
- ☐ 36. 6528517. 04 Feb 99; 04 Mar 03. Synthesis of quinobenzoxazine analogues with topoisomerase II and quadruplex interactions for use as antineoplastic agents. Hurley; Laurence H., et al. 514/279; 514/224.5 514/253.08. A61K031/44 A61K031/54.
- 
- ☐ 37. 6492117. 12 Jul 00; 10 Dec 02. Zinc finger polypeptides capable of binding DNA quadruplexes. Choo; Yen, et al. 435/6; 436/501 530/300 530/324. C12Q001/68 G01N033/566 C07K007/00 C07K016/00 C07K017/00 C07K005/00 A61K038/00.
- 
- ☐ 38. 6297284. 23 Mar 00; 02 Oct 01. DNA-cleaving antitumor agents. Kerwin; Sean Michael, et al. 514/638; 514/671 564/248 564/509. A61K031/13.
- 
- ☐ 39. 6156763. 04 Feb 99; 05 Dec 00. Inhibition of human telomerase by a g-quadruplex-interaction compound. Kerwin; Sean M., et al. 514/279; 546/37. A61K031/44 C07D221/22.
- 
- ☐ 40. 6087493. 04 Feb 98; 11 Jul 00. Porphyrin compounds as telomerase inhibitors. Wheelhouse; Richard Thomas, et al. 540/145; 435/6 534/11 534/15 536/26.6. C07D487/22.
- 
- ☐ 41. 5888739. 09 Sep 97; 30 Mar 99. Detection of nucleic acids using G-quartets and I-tetraplexes. Pitner; J. Bruce, et al. 435/6; 536/24.3 536/24.31 536/24.32 536/24.33. C12Q001/68 C07H021/04.
- 
- ☐ 42. 5843732. 06 Jun 95; 01 Dec 98. Method and apparatus for determining consensus secondary structures for nucleic acid sequences. Davis; Jeffrey P., et al. 436/94;. G01N033/00.
- 
- ☐ 43. 5691145. 27 Aug 96; 25 Nov 97. Detection of nucleic acids using G-quartets. Pitner; J. Bruce,

et al. 435/6; 435/91.1 436/800 436/805 436/94 536/23.1 536/24.3. C12Q001/68 C12P019/34 C07H021/04 C07H021/02.

---

☐ 44. 5523389. 28 Sep 93; 04 Jun 96. Inhibitors of human immunodeficiency virus. Ecker; David J., et al. 536/23.1; 435/6 435/91.1. C12N015/11 C12Q001/68.

---

☐ 45. WO2004072027A2. 05 Feb 04. 26 Aug 04. CHEMICAL DERIVATIVES BINDING VERY SPECIFICALLY WITH G-QUADRUPLEX DNA STRUCTURES AND USE THEREOF AS A SPECIFIC ANTI-CANCER AGENT. HITTINGER, AUGUSTIN, et al. C07D00/;.

---

☐ 46. WO2004063339A2. 08 Jan 04. 29 Jul 04. G-QUADRUPLEX BINDING ASSAYS AND COMPOUNDS THEREFOR. DAVENPORT, LESLEY. C12N00/;.

---

☐ 47. WO2004024091A2. 12 Sep 03. 25 Mar 04. EXPANDED PORPHYRIN COMPOSITIONS FOR TUMOR INHIBITION. HURLEY, LAURENCE H. A61K00/;.

---

☐ 48. FR002825090A1. 28 May 01. 29 Nov 02. New compounds as telomerase inhibitors that fix the G-quadruplex structure of DNA or RNA, useful in the treatment of cancers. BOUCHARD, HERVE, et al. C07D409/14; C07D401/14 C07D401/12 A61K031/506 A61K031/47 A61P035/00.

---

☐ 49. WO002078695A1. 28 Mar 02. 10 Oct 02. THIAPORPHYRIN, SELENAPORPHYRIN, AND CAROTENOID PORPHYRIN COMPOUNDS AS C-MYC AND TELOMERASE INHIBITORS. HURLEY, LAURENCE H, et al. A61K031/409; C07D487/22.

---

☐ 50. FR002822468A1. 23 Mar 01. 27 Sep 02. New arylamino-substituted triazine or diazine derivatives, used as telomerase inhibiting anticancer agents, by fixing the G-quadruplex structure of DNA or RNA. MAILLIET, PATRICK, et al. C07D401/14; C07D453/02 A61K031/53 A61P035/00.

---

☐ 51. FR002801588A1. 29 Nov 99. 01 Jun 01. Diarylamino diazine and triazine derivatives are telomerase inhibitors and G-quadruplex stabilizers, useful in the treatment of cancers. MAILLIET, PATRICK, et al. C07D403/12; C07D215/38 A61K031/53 A61K031/505 A61K031/47 A61P035/00.

---

☐ 52. WO009940093A2. 04 Feb 99. 12 Aug 99. SYNTHESIS OF QUINOBENZOXAZINE ANALOGUES WITH TOPOISOMERASE II AND QUADRUPLEX INTERACTIONS FOR USE AS ANTINEOPLASTIC AGENTS. HURLEY, LAURENCE H, et al. C07D498/00;.

---

☐ 53. WO009940087A2. 04 Feb 99. 12 Aug 99. INHIBITION OF HUMAN TELOMERASE BY A G-QUADRUPLEX-INTERACTION COMPOUND. KERWIN, SEAN M, et al. C07D417/00;.

---

☐ 54. WO009833503A1. 04 Feb 98. 06 Aug 98. PORPHYRIN COMPOUNDS AS TELOMERASE INHIBITORS. WHEELHOUSE, RICHARD T, et al. A61K031/44; C07D487/22 C07D519/00.

---

☐ 55. FR 2850970A. New quaternary aromatic nitrogen heterocycle derivatives that fix the G-quadruplex structure of DNA or RNA are telomerase inhibitors, useful in the treatment of cancers and some genetic disorders. BELMOKHTAR, C, et al. A61K031/44 A61K031/47 A61K031/4965 A61P035/00 A61P037/00 C07D000/00 C07D401/12 C07D401/14 C07D403/14 C07D217:10 C07D241:04 C07D403/14 C07D213:16 C07D217:10 C07D401/14 C07D213:16 C07D217:10 C07D217:22 C07D401/14 C07D213:16 C07D217:10 C07D295:00 C07D401/14 C07D217:10 C07D401/12.

---

☐ 56. WO2004063339A. Determining the binding affinity of a candidate compound for G-



quadruplex structures by measuring a difference in a fluorescence property of the G-quadruplex analog after contacting the G-quadruplex with a candidate compound. DAVENPORT, L. C12N000/00 C12Q001/68.

---

☐ 57. WO2004024091A. New expanded porphyrins are c-MYC gene transcription inhibitors useful for the treatment of tumors. HURLEY, L H, et al. A61K000/00 A61K031/409 C07D517/04 C07H021/04 C12Q001/68.

---

☐ 58. US20040018483A. Crystal of intramolecular G-quadruplex structure, useful in computer based analysis of interaction of molecular structure with G-quadruplex. LEE, M P H, et al. C07H021/04 C07K001/00 C07K014/00 C07K017/00 C12Q001/00 G01N033/48 G01N033/50 G06F019/00.

---

☐ 59. WO 200296903A. New compounds as telomerase inhibitors that fix the G-quadruplex structure of DNA or RNA, useful in the treatment of cancers. BOUCHARD, H, et al. A61K031/165 A61K031/33 A61K031/444 A61K031/47 A61K031/4709 A61K031/506 A61P035/00 C07D215/38 C07D215/42 C07D401/12 C07D401/14 C07D409/14 C07D215:02 C07D333:04 C07D409/14 C07D215:02 C07D239:42 C07D401/14 C07D213:04 C07D239:42 C07D401/14 C07D213:04 C07D215:02 C07D401/12 C07D215:02 C07D401/12.

---

☐ 60. WO 200276975A. New arylamino-substituted triazine or diazine derivatives, used as telomerase inhibiting anticancer agents, by fixing the G-quadruplex structure of DNA or RNA. CAULFIELD, T, et al. A61K031/4709 A61K031/53 A61K031/5377 A61K031/551 A61K045/00 A61P035/00 A61P043/00 C07D213:643 C07D213:74 C07D215/38 C07D215:00 C07D215:42 C07D251:00 C07D401/02 C07D401/12 C07D401/14 C07D405/14 C07D453/02 C07D215:00 C07D251:00 C07D401/14 C07D215:00 C07D251:00 C07D401/14 C07D215:00 C07D401/12 C07D215:42 C07D251:00 C07D401/14 C07D215:42 C07D251:00 C07D401/14 C07D211:34 C07D211:56 C07D453/02 C07D401/14 C07D401/14 C07D401/12 C07D251:00 C07D251:00 C07D251:00 C07D215:00 C07D215:00.

---

☐ 61. WO 200268408A. Nitrogen-containing aromatic agents for fixing G-quadruplex structure of DNA or RNA, e.g. new s-triazine derivatives, useful as telomerase inhibiting anticancer agents. GONTIER, S, et al. A61K031/53 A61P035/00 C07D251/40 C07D401/12 C07D403/02.

---

☐ 62. FR 2819255A. Nitrogen-containing aromatic agents for fixing G-quadruplex structure of telomers, e.g. new S-triazine derivatives, useful as telomerase inhibiting anticancer agents. ALASIA, M, et al. A61K031/155 A61K031/175 A61K031/439 A61K031/47 A61K031/53 A61K031/551 A61K045/00 A61P035/00 A61P043/00 C07D213:00 C07D215:00 C07D401/12 C07D401/14 C07D403/02 C07D453/02 C07D471/08 C07D251:00 C07D401/12 C07D215:00 C07D251:00 C07D401/14 C07D215:42 C07D251:00 C07D401/12 C07D211:58 C07D215:42 C07D251:00 C07D401/14 C07D211:14 C07D211:56 C07D471/08 C07D207:09 C07D215:42 C07D251:00 C07D401/14 C07D211:34 C07D215:42 C07D251:00 C07D401/14 C07D213:72 C07D215:42 C07D251:00 C07D401/14 C07D401/14 C07D401/12 C07D251:00 C07D251:00 C07D215:00 C07D215:00 C07D213:00.

---

☐ 63. US20020103169A. Telomerase inhibitors comprising new or known (hetero)aryl-substituted 10-alkyl-9-phenyl-phenanthridine derivatives, especially useful as anticancer agents. LAOUI, A, et al. A61K031/473 A61K031/655 A61P035/00 C07D221/12 C07H021/04 C09B029/42 C09B039/00 C12Q001/68.

---

☐ 64. WO 200210165A. Use of polycyclic aromatic compounds to bond with G-quadruplex structures giving an anti-telomerase action useful for the treatment of tumors. HELENE, C, et al.

A01N043/66 A61K031/4375 A61K031/4545 A61K031/4745 A61K031/498 A61K031/4985  
A61K031/5377 A61P035/00 A61P043/00 C07D221/00 C07D471/04 C07D213:38 C07D471/04  
C07D221:00 C07D221/00.

☐ 65. WO 200204488A. Use of a nucleic acid binding polypeptide capable of binding to telomeric, G-quadruplex, or G-quartet nucleic acid as an enzymatic activity inhibitor or cytotoxic agent, for preparing a composition for treating diseases. BALASUBRAMANIAN, S, et al. A61K038/00 C07H021/04 C07K005/00 C07K007/00 C07K014/00 C07K016/00 C07K017/00 C12N009/22 C12Q001/68 G01N033/566.

☐ 66. WO 200140218A. Diarylamino diazine and triazine derivatives are telomerase inhibitors and G-quadruplex stabilizers, useful in the treatment of cancers. LAOUI, A, et al. A61K031/47 A61K031/4709 A61K031/505 A61K031/506 A61K031/53 A61K045/00 A61P035/00 A61P043/00 C07D000/00 C07D215/38 C07D215/42 C07D251/18 C07D251/52 C07D251/54 C07D251/70 C07D401/12 C07D401/14 C07D403/12 C07D215:38 C07D251:54 C07D403/12 C07D215:38 C07D239:48 C07D403/12.

☐ 67. US 6156763A. New perylenetetracarboxylic acid diimide and carbocyanine compounds, useful as telomerase inhibitors for treating, e.g. cancers or infections or as contraceptives. FEDOROFF, O Y, et al. A61K031/425 A61K031/44 A61K031/473 A61K031/4745 C07D221/22 C07D277/64 C07D417/00 C07D471/02 C07D471/06 C07D515/00 C07D515/02 C07D515/04 C12Q001/68 G01N033/50.

☐ 68. WO 9940093A. New quinobenzoxazine and related compounds that interact with topoisomerase II-DNA complexes and gyrase, useful as antitumor and antibiotic agents. GAM, J, et al. A61K031/44 A61K031/54 C07D498/00.

☐ 69. US 6087493A. New porphyrin telomerase inhibitors - used in modifying telomerase or telomere function and for inhibiting cell preferably cancer cell proliferation. HURLEY, L H, et al. A61K031/44 C07D487/22 C07D519/00 C07D209:00 C07D257:00 C07D487/22 C07D487:00 C07D491:00 C07D519/00 C07D487:00 C07D495:00 C07D519/00 C07D471:00 C07D487:00 C07D519/00 C07D487:00 C07D513:00 C07D519/00.

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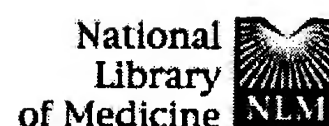
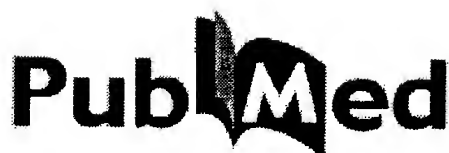
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Telomeres, representing the chromosome nucleoprotein tails, shorten during each cell division due to the inability of conventional DNA polymerases to completely replicate the chromosome termini. When telomeres become critically short, cells are directed to exit from the cell division cycle (replicative senescence). Telomerase is a reverse transcriptase that synthesizes telomeric sequences, thereby prolonging the lifespan of cells. Telomere length and telomerase activity expression vary significantly in different normal somatic tissues and age groups. In many childhood malignancies (ie, acute leukemias and solid tumors), telomere length and telomerase activity of the malignant cell population may be correlated with the disease outcome and thus may be promising tools in evaluating prognosis and monitoring treatment progress. Finally, telomerase inhibition by using several strategies (ie, antisense oligonucleotides) represents a potentially valuable target for antitumor therapy in the near future.

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### **Telomere Length and Telomerase Activity: Variations With Advancing Age and Potential Role in Childhood Malignancies.**

Journal of Pediatric Hematology/Oncology. 26(6):342-350, June 2004.

*Polychronopoulou, Sophia MD; Koutroumba, Paraskevi MD*

#### **Abstract:**

colon; Telomeres, representing the chromosome nucleoprotein tails, shorten during each cell division due to the inability of conventional DNA polymerases to completely replicate the chromosome termini. When telomeres become critically short, cells are directed to exit from the cell division cycle (replicative senescence). Telomerase is a reverse transcriptase that synthesizes telomeric sequences, thereby prolonging the lifespan of cells. Telomere length and telomerase activity expression vary significantly in different normal somatic tissues and age groups. In many childhood malignancies (ie, acute leukemias and solid tumors), telomere length and telomerase activity of the malignant cell population may be correlated with the disease outcome and thus may be promising tools in evaluating prognosis and monitoring treatment progress. Finally, telomerase inhibition by using several strategies (ie, antisense oligonucleotides) represents a potentially valuable target for antitumor therapy in the near future.

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